

Amendments to The Claims

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims

1. (Currently Amended) A purified and isolated DNA molecule ~~having a nucleotide sequence~~ comprising a DNA sequence selected from the group consisting of SEQ ID NO 1, SEQ ID NO 2 and SEQ ID NO 3.

2. (Original) A DNA molecule coding for an amino acid sequence comprising SEQ ID NO 4, SEQ ID NO 5 or SEQ ID NO 6.

3. (Currently Amended) A purified and isolated DNA molecule comprising a DNA sequence which is [[a t]] at least 80% homologous to a DNA sequence selected from the group consisting of SEQ ID NO 1, SEQ ID NO 2 [[or]] and SEQ ID NO 3.

4. (Currently Amended) The DNA molecule of claim 3 further characterized by encoding a protein with the biological activity of BMOG.

5. (Original) A vector comprising a DNA molecule of claim 1.

6. (Original) A prokaryotic or eukaryotic host cell stably transformed or transfected by a vector comprising a DNA molecule of claim 1.

7. (Currently Amended) A process for the production of a polypeptide having part or all of the structural conformation and the biological activity of BMOG comprising growing, under suitable culture conditions, ~~said host cells~~ a host cell transformed or transfected with a DNA molecule of claim 1 in a manner allowing expression of such polypeptide product, and recovering said product.

8. (Original) A polypeptide having an amino acid sequence which comprises BMOG.

9. (Currently Amended) [[A]] The polypeptide according to claim 8 said amino acid sequence comprising an amino acid sequence selected from the group consisting of SEQ ID NO 4, SEQ ID NO 5, SEQ ID NO 6, [[or]] and a variant thereof.

10. (Original) The polypeptide of claim 8 wherein said polypeptide is soluble.

11. (Original) An IgG fusion protein comprising BMOG or a fragment thereof.

12. (Original) An antibody to a polypeptide of claim 8, 9, 10 or 11.

13. (Original) A hybridoma cell line which produces an antibody specific to BMOG.

14. (Original) A method for modulating the immune system of a subject comprising administering to the subject a therapeutically effective amount of a BMOG polypeptide or a fragment thereof.

15. (Original) The method of claim 14 wherein said polypeptide is soluble.

16. (Original) The method of claim 14 wherein said polypeptide is a fusion protein.

17. (Original) The method of claim 14 wherein the subject is human.

18. (Original) A method of inhibiting signal transduction involving a cell expressing BMOG comprising contacting said cell with a soluble BMOG protein.

19. (Original) A method for targeting a toxin, imageable compound or radionuclide to a cell expressing BMOG comprising contacting the cell with a BMOG protein, fragment or fusion protein thereof.

20. (Original) A method of gene therapy comprising the step of administering a gene for BMOG to a subject.